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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/650,344	08/28/2003	Sung-Yung Lee	5649-1162 6659	
7590 05/31/2006			EXAMINER	
Julie H. Richardson, Esq.			QUINTO, KEVIN V	
Myers Bigel Sibley & Sajovec, P.A. P. O. Box 37428 Raleigh, NC 27627			ART UNIT	PAPER NUMBER
			2826	
			DATE MAILED: 05/31/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		LA Partie				
•	Application No.	Applicant(s)				
Office Action Cummons	10/650,344	LEE ET AL.				
Office Action Summary	Examiner	Art Unit				
The MAN INC DATE of this communication com	Kevin Quinto	2826				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONED	N. nely filed the mailing date of this communication. D. (35 U.S.C. § 133).				
Status	*					
1) Responsive to communication(s) filed on 27 Ap	<u>oril 2006</u> .	•				
2a) This action is FINAL . 2b) This	This action is FINAL . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E.	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
Claim(s) 10-20,33-35,38,44 and 45 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 10-20, 33, 35, 38, 44, and 45 is/are allowed. Claim(s) 34 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the d Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary (Paper No(s)/Mail Da	te				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal Pa	atent Application (PTO-152)				

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DETAILED ACTION

Response to Arguments

- 1. This Office action is in response to the amendment filed under 37 C.F.R. 1.116 dated April 27, 2006. The amendment has been entered.
- 2. Applicant's arguments with respect to claim 34 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claim 34 is rejected under 35 U.S.C. 102(b) as being anticipated by Okudaira et al. (USPN 5,459,345).
- 5. In reference to claim 34, Okudaira et al. (USPN 5,459,345, hereinafter referred to as the "Okudaira" reference) discloses a method which meets the claim. Figure 1 illustrates a semiconductor device with a plurality of MIM capacitors in unit cells of an integrated circuit memory device. Figures 2-14 of Okudaira discloses its fabrication method which comprises forming an oxidation barrier pattern (11) on a semiconductor substrate (31). A lower electrode (13) is formed on the oxidation barrier pattern (11) so that a top surface area of the oxidation barrier pattern (11) is substantially equal to a

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bottom surface area of the lower electrode (13). An interlayer dielectric layer (101) on the semiconductor substrate (31) prior to forming the oxidation barrier pattern (11). A contact plug is placed in the interlayer dielectric layer (101) so that it extends a distance through the interlayer dielectric (101) to be in electrical communication with a predetermined region of the semiconductor substrate (31) prior to forming the oxidation barrier pattern (11). An etch stop layer (3) is formed over the interlayer dielectric layer (101) prior to forming the oxidation barrier pattern (11).

Allowable Subject Matter

- 6. Claims 10-20, 33, 35, 38, 44, and 45 are allowed.
- 7. The following is a statement of reasons for the indication of allowable subject matter: the reasons for allowance were stated in a previous Office action.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Quinto whose telephone number is (571) 272-1920. The examiner can normally be reached on M-F 8AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

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published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KVQ

NATHAN J. FLYNN SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800